THE CLAIMS

- 1. (currently amended) A method for reducing the incidence or severity of vascular hyperreactivity in a patient in need thereof comprising administering to the patient an effective amount of a selective estrogen beta receptor agonist that has a higher relative selectivity potency than does genistein for estrogen receptor beta compared to estrogen receptor alpha than that of genistein.
- 2. (original) The method of claim 1 wherein the vascular hyperreactivity of the patient is manifested by coronary arterial vasospasm.
- 3. (original) The method of claim 1 wherein the vascular hyperreactivity of the patient is manifested by hyperreactivity of peripheral arteries.
- 4. (original) The method of claim 1 wherein the estrogen beta receptor agonist is 5α -androstane- 3β ,17 β -diol.
- 5. (original) The method of claim 1 wherein the estrogen beta receptor agonist is a derivative of 5α -androstane- 3β , 17β -diol that has estrogen beta receptor agonist activity.
- 6. (original) The method of claim 5 wherein the derivative of 5α -androstane- 3β ,17 β -diol is selected from the group consisting of 5α -androstan- 3β ,17 β -diol-3 hemisuccinate, 5α -androstan- 3β ,17 β -diol-17-sulphate sodium salt, 5α -androstan- 3β ,17 β -diol-3-acetate, 5α -

androstan-3 β ,17 β -diol-17-acetate, 5 α -androstan-3 β ,17 β -diol-diacetate, 5 α -androstan-3 β ,17 β -diol-dibenzoate, 5 α -androstan-3 β ,17 β -diol-dibenzoate, 5 α -androstan-3 β ,17 β -diol-diproprionate, and 5 α -androstan-3 β ,17 β -diol-17-hexahydrobenzoate.

- 7. (original) The method of claim 1 wherein the estrogen beta receptor agonist is epiestriol.
- 8. (previously presented) The method of claim 1 wherein the estrogen beta receptor agonist is diarylpropionitrile.
- 9. (original) The method of claim 4 wherein the amount of 5α -androstane- 3β ,17 β -diol that is administered is sufficient to obtain a serum concentration of between 30 and 3000 pg/ml.
- 10. (original) The method of claim 9 wherein the amount of 5α -androstane- 3β ,17 β -diol that is administered is sufficient to obtain a serum concentration of between 30 and 300 pg/ml.
- 11. (original) The method of claim 1 wherein the estrogen beta receptor agonist is co-administered with a hormone replacement therapy.

- 12. (original) The method of claim 11 wherein the hormone replacement therapy is selected from the group consisting of estrogen, and progestin therapy.
- 13. (original) The method of claim 1 wherein the estrogen beta receptor agonist is administered to the patient by topical application to skin.
- 14. (original) The method of claim 13 wherein the estrogen beta receptor agonist is in a topical preparation selected from the group consisting of a liquid, cream, gel, lotion, ointment, and transdermal patch.
- 15. (original) The method of claim 1 wherein the estrogen beta receptor agonist is administered to the patient by other than topical administration to skin.
- 16. (original) The method of claim 15 wherein administration is by oral, rectal, vaginal, topical, sublingual, nasal, intradermal, inhalation, or sustained implant administration routes.
- 17. (withdrawn) A kit for administering an estrogen beta receptor agonist compound to a patient suffering from or at risk of vascular hyperreactivity comprising a container, a topical preparation containing an estrogen beta receptor agonist in the container, and instructions for dispensing an amount of the preparation which provides an amount of the

estrogen beta receptor agonist that is effective to prevent or reduce the severity of vascular hyperreactivity.

- 18. (withdrawn) The kit of claim 17 wherein the estrogen beta receptor agonist is 5α -androstane- 3β , 17β -diol.
- 19. (withdrawn) The kit of claim 17 wherein the estrogen beta receptor agonist is a derivative of 5α -androstane- 3β , 17β -diol that has estrogen beta receptor agonist activity.
- 20. (withdrawn) The kit of claim 19 wherein the derivative of 5α -androstane- 3β , 17β -diol is selected from the group consisting of 5α -androstan- 3β , 17β -diol-3 hemisuccinate, 5α -androstan- 3β , 17β -diol-17-sulphate sodium salt, 5α -androstan- 3β , 17β -diol-3-acetate, 5α -androstan- 3β , 17β -diol-17-acetate, 5α -androstan- 3β , 17β -diol-diacetate, 5α -androstan- 3β , 17β -diol-dibenzoate, 5α -androstan- 3β , 17β -diol-dihemisuccinate, 5α -androstan- 3β , 17β -diol-diproprionate, and 5α -androstan- 3β , 17β -diol-17-hexahydrobenzoate.
- 21. (withdrawn) The kit of claim 17 wherein the estrogen beta receptor agonist is epiestriol.
- 22. (withdrawn) The kit of claim 17 wherein the estrogen beta receptor agonist is genistein or diarylpropionitrile.

23. (withdrawn) The kit of claim 17 wherein the topical preparation is selected from the group consisting of a liquid, cream, gel, lotion, ointment, and transdermal patch.